PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT					
To: OWENS-ILLINOIS, INC. Attn. Smith, Susan L. One SeaGate, 25-LDP JAN 3 1 7007 Toledo, Ohio 43666 UNITED STATES OF AMERICA INTELLECTU	AL CTION					
	(PCT Rule 44.1) Date of mailing					
	(day/month/year) 24/01/2005					
Applicant's or agent's file reference						
18070 PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No. PCT/US2004/020331	International filing date (day/month/year) 23/06/2004					
Applicant						
OWENS-BROCKWAY GLASS CONTAINER, INC.						
The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filling of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filling such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombetes 1211 Geneva 20, Switzerland, Fascimille No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the international Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the International application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.3 respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an Informal basis on the written opinion of the International Searching Au						
Guide, Volume II, National Chapters and the WIPO Internet site.						
Name and mailing address of the International Searching Authority	Authorized officer					
European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk 11-70) 340-2040, Tx. 31 651 epo nl, Fay: (431-70) 340-3016	Véronique Baillou					

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added. or
 Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged.
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

Owens-Illinois, Inc.

PCT

JAN 3 1 2005

INTERNATIONAL SEARCH REPORT

INTELLECTUAL PROPERTY SECTION

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form DCT/IS A/220						
18070 PCT	ACTION as well	see Form PCT/ISA/220 as, where applicable, item 5 below.						
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)						
PCT/US2004/020331	23/06/2004	27/06/2003						
Applicant								
OWENS-BROCKWAY GLASS CONTA	AINER, INC.							
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Authorsmitted to the International Bureau.	ority and is transmitted to the applicant						
This International Search Report consists	of a total of sheets.	: .						
X It is also accompanied by	a copy of each prior art document cited in this	report.						
Basis of the report a. With regard to the language, the is language in which it was filed, unle	nternational search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the						
The international sthis Authority (Rule	search was carried out on the basis of a translate 23.1(b)).	tion of the International application furnished to						
b. With regard to any nucleo	tide and/or amino acid sequence disclosed i	n the international application, see Box No. I.						
2. Certain claims were four	d unsearchable (See Box II).							
3. Unity of invention is lack	3. Unity of invention is lacking (see Box III).							
4. With regard to the title,								
the text is approved as submitted by the applicant.								
X the text has been established by this Authority to read as follows:								
INVERT ARM ASSEMBLY FOR	R GLASSWARE FORMING MACHINE							
	•							
•								
E Mills report to the above								
 With regard to the abstract, The text is approved as subject. 	mitted by the applicant	÷						
	ed, according to Rule 38.2(b), by this Authority	as it appears in Boy No. IV. The applicant						
may, within one month from	the date of mailing of this international search	report, submit comments to this Authority.						
6 With regard to the drawings								
6. With regard to the drawings,	olished with the abstract is Figure No1_							
a. The right of the drawings to be put		· ·						
	Authority, because the applicant failed to suggi	est a figure.						
	Authority, because this figure better characteria	-						
b. none of the figures is to be								

INTERNATIONAL SEARCH REPORT

International Application No PCT/US2004/020331

A. CLASS	IFICATION OF SUBJECT MATTER		
IPC 7	ification of subject matter C03B9/353 C03B9/40 C03B9/	/16	
	•		
According t	o International Patent Classification (IPC) or to both national clas	sification and IPC	
	SEARCHED		
Minimum de	ocumentation searched (classification system followed by classif	ication symbols)	
IPC 7	C03B	-	
	·	•	
Documenta	tion searched other than minimum documentation to the extent the	nat such documents are included in the fields s	earched
Electronic d	ata base consulted during the international search (name of data	book and whom another and the	
		a base and, where practical, search terms used	a) .
EPU-IN	ternal, WPI Data, PAJ	•	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
_			
Α	US 4 461 637 A (GENNARD DEREK	FT AL)	1-38
	24 July 1984 (1984-07-24)	-	1 30
	column 2, line 3 - line 66; fig	ures 1,2,5	
	DE 101 00 500 1 (500 AT 01 400 B		
Α	DE 101 38 529 A (EMHART GLASS S 12 September 2002 (2002-09-12)	A)	1–38
	paragraphs '0004! - '0010!; fig	ures 1-3	
		ules 1 5	
A	EP 1 207 138 A (OWENS BROCKWAY	GLASS	1-38
	CONTAINER) 22 May 2002 (2002-05		
	paragraphs '0005! - '0007!; fig	ures 1-7	
		į	
		Ì	<i>t</i>
ł			
Ĭ		}	
Furin	er documents are listed in the continuation of box C.	Patent family members are listed in	annex.
° Special cat	egories of cited documents :	*T* later document published after the inter	national filing data
	nt defining the general state of the art which is not	or priority date and not in conflict with the cited to understand the principle or the	he application but
	ered to be of particular relevance ocurnent but published on or after the international	Invention	, , ,
filing da	ite it which may throw doubts on priority claim(s) or	'X' document of particular relevance; the classification cannot be considered novel or cannot be considered.	be considered to
which is	it which may thow doubts on priority claim(s) or s cited to establish the publication date of another or other special reason (as specified)	involve an inventive step when the doc "Y" document of particular relevance; the cla	aimed invention
"O" docume	nt referring to an oral disclosure, use, exhibition or	cannot be considered to involve an invo document is combined with one or mor	entive step when the
other m P* documer	eans It published prior to the International filing date but	ments, such combination being obvious in the art.	
later the	amily		
Date of the a	ctual completion of the international search	Date of mailing of the international seam	ch report
00	Navamban 2004	00/00/5	
23	November 2004	24/01/2005	
Name and ma	ailing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk		•
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	González-Junquera,	J

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2004/020331

	Patent document clted in search report		Publication date		Patent family member(s)	Publication date	
	US 4461637 A		24-07-1984	GB 2093824 A AU 547424 B2 AU 8141582 A CA 1179139 A1 DE 3263221 D1 EP 0059570 A1 W0 8202876 A1 JP 2002812 B JP 58500124 T		08-09-1982 17-10-1985 14-09-1982 11-12-1984 30-05-1985 08-09-1982 02-09-1982 19-01-1990 20-01-1983	
-	DE 10138529	Α	12-09-2002	AU CZ DE FR GB IT JP	7606001 A 20013415 A3 10138529 A1 2814456 A1 2367875 A MI20011984 A1 2002187725 A	11-04-2002 15-05-2002 12-09-2002 29-03-2002 17-04-2002 28-03-2002 05-07-2002	
	EP 1207138	A	22-05-2002	US AU BR CA CN CZ EE HU JP PL ZA	6557380 B1 9133701 A 0105231 A 2361890 A1 1357499 A 20014109 A3 200100604 A 1207138 A1 0104850 A2 2002193625 A 350704 A1 200109380 A	06-05-2003 16-05-2002 25-06-2002 15-05-2002 10-07-2002 17-07-2002 17-06-2002 22-05-2002 29-06-2002 10-07-2002 20-05-2002 18-06-2002	

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

То:		PCT				
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 bis.1)				
		(day/month/year) se	e form PCT/ISA/210 (second sheet)			
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER A See paragraph 2 belo				
International application No. PCT/US2004/020331	International filing date (c 23.06.2004	day/month/year)	Priority date (day/month/year) 27.06.2003			
International Patent Classification (IPC) or C03B9/353, C03B9/40, C03B9/16	both national classification	and IPC				
Applicant OWENS-BROCKWAY GLASS CC	ONTAINER, INC.					
I. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application Box No. VIII Priority FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the Cosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.						
3. For further details, see notes to F	orm PCT/ISA/220.					
Ť						

Name and mailing address of the ISA:

Authorized Officer



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

González-Junquera, J Telephone No. +49 89 2399-7445



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/020331

_								
_	Box	N	o. I Basis of the opinion					
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.							
		lar	his opinion has been established on the basis of a translation from the original language into the following inguage , which is the language of a translation furnished for the purposes of international search and results 12.3 and 23.1(b)).					
2.	With	n re ess	gard to any nucleotide and/or amino acid sequence disclosed in the international application and eary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:							
		ב	a sequence listing					
		כ	table(s) related to the sequence listing					
	b. fc	rm	at of material:					
)	in written format					
	. [in computer readable form					
	c. tir	ne	of filing/furnishing:					
		3	contained in the international application as filed.					
	Е)	filed together with the international application in computer readable form.					
)	furnished subsequently to this Authority for the purposes of search.					
3.		has	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional poies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.					
,	۸ ما ما:		and comments:					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/020331

Во	x No. II	Priority								
1. 🛭	The fo	llowing document h	nas not bee	en furnishe	ed:		,			
	\boxtimes	.copy of the earlie	r applicatio	n whose p	riority has be	een claimed	(Rule 43bi	s.1 and 66	.7(a)).	
		translation of the	earlier app	lication wh	ose priority	has been cla	aimed (Rule	: 43 <i>bis</i> .1 a	nd 66.7(b))).
	Conse neverti	quently it has not b heless been establ	een possil ished on th	ole to cons ne assump	ider the valid tion that the	dity of the pr relevant dat	iority claim. e is the cla	This opini imed priori	ion has ity date.	
2. 🛘	has be	oinion has been es en found invalid (R ate indicated above	lules 43 <i>bis</i>	.1 and 64.	1). Thus for t	the purpose:	ue to the fa s of this opi	ct that the nion, the i	priority cl nternatior	laim nal
3. Ad	ditional c	bservations, if nec	essary:					-		
										,
	x No. V Iustrial a	Reasoned state applicability; citat	ment und	ler Rule 40 explanation	Bbis.1(a)(i) v	vith regard ing such st	to novelty,	inventive	step or	
	atement									
No	velty (N)		Yes: No:	Claims Claims	1-38					
Inv	entive st	ep (IS)	Yes: No:	Claims Claims	1-38					
Ind	ustrial ap	oplicability (IA)	Yes: No:	Claims Claims	1-38					
P. Cita	ations an	d explanations			•					

see separate sheet

Re Item V.

1 The following documents are referred to in this communication:

D1: US 4 461 637 A D3: EP 1 207 138 A

Document D1 discloses (col. 2, lines 3-66; figs. 1,2,5) an invert arm assembly for use in an individual section (I.S.) glassware forming machine featuring an invert base that can be rotated about an axis between first and second angularly-spaced positions, and a reversible electric motor operably associated with the invert arm assembly to rotate it about said axis in a pair of opposed directions. Such device is advantageous in that, due to the servocontrolled electric drive, the inversion movement (speed and acceleration) can be easily and precisely adjusted to any desired curve, according to the changing requirements.

Document D3 discloses a single-motor electrically driven arm opening and closing device for an I.S. glassware forming machine, whose advantage is that the motor can be made to operate in two different modes (high speed or high torque).

Neither D1 nor D3 disclose the system of claim 1 of the application for opening and closing the arms, in particular the reciprocating nuts threadably engaged in the ball spindle driven by a reversible electric motor.

The subject-matter of claim 1 is therefore novel (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as how to build in a different way an invert arm assembly for an I.S. machine. Desired properties of the arm assembly are robustness, precise control of the movement, and simplicity.

The solution is a device with all the features of claim 1, which, as mentioned above, are not disclosed in either D1 or D3. That combination of features cannot be derived in any obvious way from any combination of available prior art documents. Hence, the solution proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT).

3 Claims 2-38 are dependent on claim 1 and as such also meet the requirements of

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/020331

the PCT with respect to novelty and inventive step.